### STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	<u>/0/53/,357</u>
Source:	PUTIO
Date Processed by STIC:	4/21/05
<u> </u>	<del></del>

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
  U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
  Alexandria, VA 22314

Revised 01/24/05

### Raw Sequence Listing Error Summary

	10/57/95/
RROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/3/1/3/1/3/1/
	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY it n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10 Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
Use of <220>	Sequence(s)missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid
-	AMC - Biotechnology Systems Branch - 09/09/2003



PCT

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/531,357**DATE: 04/21/2005

TIME: 09:55:54

Input Set : A:\38-05sequencelisting.txt
Output Set: N:\CRF4\04212005\J531357.raw

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              FRIEL, Ellen Nicola
     7
             BEUNING, Lesley Leah
             MACRAE, Elspeth Ann
     12 <120> TITLE OF INVENTION: Plant alpha farnesene synthase and polynucleotides encoding
same
     16 <130> FILE REFERENCE: 38-05
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/531,357
     21 <141> CURRENT FILING DATE: 2005-04-14
                                                                  pp 3-5
     25 <150> PRIOR APPLICATION NUMBER: PCT/NZ2003/000229
     27 <151> PRIOR FILING DATE: 2003-10-15
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     32 <151> PRIOR FILING DATE: 2002-10-15
     36 <160> NUMBER OF SEQ ID NOS: 14
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                                                                       Dose Not Comply
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     48 <212> TYPE: DNA
     50 <213> ORGANISM: Malus domestica
                                                                                            ._....
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     59 aaacccgaac ctgaagcctc ttacttgatt aatcaaagac ggtctgcaaa ttacaagcca
                                                                              180
     61 aatatttgga agaacgattt cctagatcaa tctcttatca gcaaatacga tggagatgag
                                                                              240
                                                                              300
    63 tatcggaagc tgtctgagaa gttaatagaa gaagttaaga tttatatatc tgctgaaaca
     65 atggatttag tagctaagtt ggagctcatt gacagcgtcc gaaaactagg cctcgcgaac
                                                                              360
     67 ctcttcgaaa aggaaatcaa ggaagcccta gacagcattg cagctatcga aagcgacaat
                                                                              420
     69 ctcggcacaa gagacgatct ctatggtact gcattacact tcaagatcct caggcagcat
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                                                                              540
     71 ggctataaag tttcacaaga tatatttggt agattcatgg atgaaaaggg cacattagag
                                                                              600
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                                                                              660
     75 ttcgaaggtg aagatatttt agatgaggcg aaagcttcct tgacgctagc tctcagagat
     77 agtggtcata tttgttatcc agacagtaac ctttccaggg acgtagttca ttccctggag
                                                                              720
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                                                                              780
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     81 aaagacattt gtcgcgtcaa cgccacgtta ctcgaattag caaagcttaa tttcaacgta
     83 gttcaggccc aactccaaaa aaacttaagg gaagcatcca ggtggtgggc aaatctgggc
                                                                              900
                                                                              960
     85 ttcgcagaca acttgaaatt tgcaagagat agactggttg aatgtttctc atgtgctgtg
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     87 ggagtagcat tegageetga geacteatet tttagaatat gtettaeeaa agteateaae
     89 ttagtactga tcatagacga cgtctatgat atttatggct cagaggaaga gctaaagcac
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     91 ttcaccaatg ctgttgatag gtgggattct agggaaactg agcagcttcc agagtgtatg
                                                                             1140
     93 aagatgtgtt tccaagtact ctacaacact acttgtgaaa ttgctcgtga aattgaggag
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     95 gagaatggtt ggaaccaagt attacctcaa ttgaccaaag tgtgggcaga tttttgtaaa
                                                                             1260
     97 gcattattgg tggaggcaga gtggtataat aagagccata taccaaccct tgaagagtac
                                                                             1320
     99 ctaagaaacg gatgcatttc atcatcagtt tcagtgcttt tggttcactc gtttttctct
                                                                             1380
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101 ataactcatg agggaaccaa agagatggct gattttcttc acaagaatga agatcttttg

1440





## RAW SEQUENCE LISTING DATE: 04/21/2005 PATENT APPLICATION: US/10/531,357 TIME: 09:55:54

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Output Set: N:\CRF4\04212005\J531357.raw

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			-	Arg		His	Leu	Gln	Ala	Asp	Asn	Glu	Gln	Lys	Ile	Phe	
135				<b>J</b>	5					10					15		
138	Gln	Asn	Gln	Met	Lys	Pro	Glu	Pro	Glu	Ala	Ser	Tyr	Leu	Ile	Asn	Gln	
139				20					25					30			
142	Arg	Arg	Ser	Ala	Asn	Tyr	Lys	Pro	Asn	ΙĮe	$\operatorname{Trp}$	Lys	Asn	Asp	Phe	Leu	
143		_	35		_			40		_			45				
	Asp		Ser	Leu	Ile	Ser		Tyr	Asp	Gly	Asp		Tyr	Arg	Lys	Leu	
147	0	50	T	T	<b>-</b> 1 -	<b>a</b> 1	55	**- 3	<b>T</b>	<b>-</b> 1 -	Ш	60	<b>0</b>	7.7 -	~1	ml	
150		GIU	гаг	Leu	ше	70	GIU	vai	гаг	ше	75	тте	ser	Ala	Glu	80	
		λen	T.211	Val	Δls		T.011	Glu	T.em	т1Б		Ser	V-1	Ara	Lve		
155	MCC	пор	цси	vai	85	шуз	пси	Olu	пси	90	льр	DCI	val	<i></i> 9	95	<b>D</b> Cu	
	Gly	Leu	Ala	Asn		Phe	Ġlu	Lys	Glu		Lys	Glu	Ala	Leu		Ser	
159	-			100				•	105		-			110	-		
162	Ile	Ala	Ala	Ile	Glu	Ser	Asp	Asn	Leu	Gly	Thr	Arg	Asp	Asp	Leu	Tyr	
163			115					120					125			_	
	Gly		Ala	Leu	His	Phe	_	Ile	Leu	Arg	Gln		Gly	Tyr	Lys	Val	
167	C = m	130	7 ~~	T1.	Dha	<b>~</b> 1	135	Dh.a	14 a b	7 ~~~	~1	140	<b>~1</b>	mb	т	<b>C</b> 1	
	145	GIII	ASD	Ile	Pne	150	Arg	Pne	мес	ASD	155	гуя	GIA	THE	ьeu	160	
		His	His	Phe	Δla		T.eu	Lvs	Glv	Met		Glu	Leu	Phe	Glu		
175	11011			1110	165		Leu	_,5	O-1	170	200	O.L.u	200	1110	175	1114	
	Ser	Asn	Leu	Gly		Glu	Gly	Glu	Asp		Leu	Asp	Glu	Ala		Ala	
179				180			•		185			-		190	-		
182	Ser	Leu	Thr	Leu	Ala	Leu	Arg	Asp	Ser	Gly	His	Ile	Cys	Tyr	Pro	Asp	
183			195					200					205				
	Ser		Leu	Ser	Arg	Asp	Val	Val	His	Ser	Leu	Glu	Leu	Pro	Ser	His	
187		210				_	215	_			_	220					
	_	Arg	Val	Gln	Trp		Asp	Val	Lys	Trp		Ile	Asn	Ala	Tyr		
	225	7 ~~	т1.	C	7 200	230	7 ~~	71.	mb	T 011	235	~1	T 011	71.	T	240	
194	пЛг	Asp	тте	Cys	Arg 245	vaı	ASI	ATG	TUI,	250	ьeи	GIU	ьeu	ATG	Lуs 255	Leu	
	Acn	Phe	Acn	Val		Gln	Δla	Gln	T.eu		Lvc	Acn	Len	Ara		Ala	
199			11011	260		O111	u	J211	265	O 1 1 1	-,5	11011	200	270	OI U		
	Ser	Arq	Trp	Trp	Ala	Asn	Leu	Glv		Ala	Asp	Asn	Leu		Phe	Ala	
			- 12	- 4				- 4			- T-			4			





PATENT APPLICATION: US/10/531,357

DATE: 04/21/2005 TIME: 09:55:54

Input Set : A:\38-05sequencelisting.txt
Output Set: N:\CRF4\04212005\J531357.raw

280 203 206 Arg Asp Arg Leu Val Glu Cys Phe Ser Cys Ala Val Gly Val Ala Phe 295 210 Glu Pro Glu His Ser Ser Phe Arg Ile Cys Leu Thr Lys Val Ile Asn 310 315 214 Leu Val Leu Ile Ile Asp Asp Val Tyr Asp Ile Tyr Gly Ser Glu Glu 325 330 218 Glu Leu Lys His Phe Thr Asn Ala Val Asp Arg Trp Asp Ser Arg Glu 345 222 Thr Glu Gln Leu Pro Glu Cys Met Lys Met Cys Phe Gln Val Leu Tyr 360 365 355 226 Asn Thr Thr Cys Glu Ile Ala Arg Glu Ile Glu Glu Asn Gly Trp 375 230 Asn Gln Val Leu Pro Gln Leu Thr Lys Val Trp Ala Asp Phe Cys Lys 395 390 234 Ala Leu Leu Val Glu Ala Glu Trp Tyr Asn Lys Ser His Ile Pro Thr 405 238 Leu Glu Glu Tyr Leu Arg Asn Gly Cys Ile Ser Ser Ser Val Ser Val 420 425 242 Leu Leu Val His Ser Phe Phe Ser Ile Thr His Glu Gly Thr Lys Glu 440 246 Met Ala Asp Phe Leu His Lys Asn Glu Asp Leu Leu Tyr Asn Ile Ser 455 250 Leu Ile Val Arg Leu Asn Asn Asp Leu Gly Thr Ser Ala Ala Glu Gln 475 470 254 Glu Arg Gly Asp Ser Pro Ser Ser Ile Val Cys Tyr Met Arg Glu Val 485 490 258 Asn Ala Ser Glu Glu Thr Ala Arg Lys Asn Ile Lys Gly Met Ile Asp 505 262 Asn Ala Trp Lys Lys Val Asn Gly Lys Cys Phe Thr Thr Asn Gln Val 520 266 Pro Phe Leu Ser Ser Phe Met Asn Asn Ala Thr Asn Met Ala Arg Val 540 535 270 Ala His Ser Leu Tyr Lys Asp Gly Asp Gly Phe Gly Asp Gln Glu Lys model (2137 response. Sel iten 10

model (2137 response. Sel iten 10

menor furmay

this must be
an explanation for
"Artificial Sequence". Use
"Synthetic" as (2237 response

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DATE: 04/21/2005

TIME: 09:55:54

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/531,357

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Output Set: N:\CRF4\04212005\J531357.raw

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333	aaatc	aagga	agcc	ctaga	ac ag	gcgtt	gcag	g cta	atcga	aaag	cgad	caato	ctc g	ggcad	caagag	g 120	0
		ctcta															0
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339	cgcat	ttaaa	agga	atgct	g ga	aactt	ttc	g agg	gcct	caaa	cct	gggtt	ttc 9	gaag	gtgaaq		
341	atatt	ttaga	tgag	gcgaa	aa go	cttc	cttga	a cgo	ctago	ctct	caga	agata	agt g	ggtca	atatt		
	-	ccaga															
		gtgca															
		aacgc	_		_		_	_				_	_				
		aaaaa															
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360 362 366 368	<212><213><400> Lys L	TYPE:	PRT ISM: NCE:	Malu 7 Ile				Arg	_	Leu	Gly	Leu	Ala		Leu		
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360 362 366 368 369 372 373 376 377	<212><213><400> Lys L 1 Phe G	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35	PRT ISM: NCE: Leu Glu 20 Leu	Malu 7 Ile 5 Ile Gly	Asp Lys Thr	Ser Glu Arg	Val Ala Asp 40	Leu 25 Asp	10 Asp Leu	Ser Tyr	Val Ala	Ala Thr 45	Ala 30 Ala	15 Ile Leu	Glu His		
360 362 366 368 369 372 373 376 377 380	<212><213><400> Lys L 1 Phe G Ser A	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile	PRT ISM: NCE: Leu Glu 20 Leu	Malu 7 Ile 5 Ile Gly	Asp Lys Thr	Ser Glu Arg His	Val Ala Asp 40	Leu 25 Asp	10 Asp Leu	Ser Tyr	Val Ala Ser	Ala Thr 45	Ala 30 Ala	15 Ile Leu	Glu His		
360 362 366 368 369 372 373 376 377 380 381	<212><213><400> Lys L 1 Phe G Ser A Phe L	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile	PRT ISM: NCE: Leu Glu 20 Leu Leu	Malu 7 Ile 5 Ile Gly Arg	Asp Lys Thr Gln	Ser Glu Arg His 55	Val Ala Asp 40 Gly	Leu 25 Asp Tyr	10 Asp Leu Lys	Ser Tyr Val	Val Ala Ser 60	Ala Thr 45 Gln	Ala 30 Ala Asp	15 Ile Leu Ile	Glu His Phe		
360 362 366 368 369 372 373 376 377 380 381 384	<212><213><400> Lys L 1 Phe G Ser A Phe L 5	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile	PRT ISM: NCE: Leu Glu 20 Leu Leu	Malu 7 Ile 5 Ile Gly Arg	Asp Lys Thr Gln	Ser Glu Arg His 55	Val Ala Asp 40 Gly	Leu 25 Asp Tyr	10 Asp Leu Lys	Ser Tyr Val Glu	Val Ala Ser 60	Ala Thr 45 Gln	Ala 30 Ala Asp	15 Ile Leu Ile	Glu His Phe Ala		
360 362 366 368 369 372 373 376 380 381 384 385	<212><213><400> Lys L 1 Phe G Ser A Phe L 5 Gly A	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile 0 rg Phe	PRT ISM: NCE: Leu Glu 20 Leu Leu	Malu 7 Ile 5 Ile Gly Arg	Asp Lys Thr Gln Glu 70	Ser Glu Arg His 55 Lys	Val Ala Asp 40 Gly	Leu 25 Asp Tyr	10 Asp Leu Lys Leu	Ser Tyr Val Glu 75	Val Ala Ser 60 Asn	Ala Thr 45 Gln His	Ala 30 Ala Asp	15 Ile Leu Ile Phe	Glu His Phe Ala 80		
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360 362 368 369 372 373 376 377 380 381 385 388 389 392	<212><213><400> Lys L 1 Phe G Ser A Phe L Gly A 65 His L	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile 0 rg Phe	PRT ISM: NCE: Leu Glu 20 Leu Leu Met	Malu 7 Ile 5 Ile Gly Arg Asp Met 85	Asp Lys Thr Gln Glu 70 Leu	Ser Glu Arg His 55 Lys Glu	Val Ala Asp 40 Gly Gly Leu	Leu 25 Asp Tyr Thr Phe	10 Asp Leu Lys Leu Glu 90	Ser Tyr Val Glu 75 Ala	Val Ala Ser 60 Asn Ser	Ala Thr 45 Gln His	Ala 30 Ala Asp His Leu	15 Ile Leu Ile Phe Gly 95	Glu His Phe Ala 80 Phe		
360 362 368 369 372 373 376 381 384 385 388 389 392 393	<pre>&lt;212&gt; &lt;213&gt; &lt;400&gt; Lys L 1 Phe G Ser A Phe L 5Gly A 65 His L Glu G</pre>	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile 0 rg Phe eu Lys	PRT ISM: NCE: Leu Glu 20 Leu Leu Met Gly Asp 100	Malu 7 Ile 5 Ile Gly Arg Asp Met 85 Ile	Asp Lys Thr Gln Glu 70 Leu	Ser Glu Arg His 55 Lys Glu Asp	Val Ala Asp 40 Gly Gly Leu Glu	Leu 25 Asp Tyr Thr Phe Ala 105	Leu Lys Leu Glu 90 Lys	Ser Tyr Val Glu 75 Ala	Val Ala Ser 60 Asn Ser Ser	Ala Thr 45 Gln His Asn Leu	Ala 30 Ala Asp His Leu Thr 110	15 Ile Leu Ile Phe Gly 95 Leu	Glu His Phe Ala 80 Phe Ala		
360 362 368 369 372 373 376 381 384 385 388 389 392 393	<pre>&lt;212&gt; &lt;213&gt; &lt;400&gt; Lys L 1 Phe G Ser A Phe L 5Gly A 65 His L Glu G</pre>	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile 0 rg Phe eu Lys	PRT ISM: NCE: Leu Glu 20 Leu Leu Met Gly Asp 100 Ser	Malu 7 Ile 5 Ile Gly Arg Asp Met 85 Ile	Asp Lys Thr Gln Glu 70 Leu	Ser Glu Arg His 55 Lys Glu Asp	Val Ala Asp 40 Gly Gly Leu Glu	Leu 25 Asp Tyr Thr Phe Ala 105	Leu Lys Leu Glu 90 Lys	Ser Tyr Val Glu 75 Ala	Val Ala Ser 60 Asn Ser Ser	Ala Thr 45 Gln His Asn Leu	Ala 30 Ala Asp His Leu Thr 110	15 Ile Leu Ile Phe Gly 95 Leu	Glu His Phe Ala 80 Phe Ala		
360 362 366 368 372 373 376 377 380 381 384 385 388 392 393 396 397	<pre>&lt;212&gt; &lt;213&gt; &lt;400&gt; Lys L 1 Phe G Ser A Phe L 5 Gly A 65 His L Glu G Leu A</pre>	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile o rg Phe eu Lys ly Glu rg Asp	PRT ISM: NCE: Leu Glu 20 Leu Leu Met Gly Asp 100 Ser	Malu 7 Ile 5 Ile Gly Arg Asp Met 85 Ile Gly	Asp Lys Thr Gln Glu 70 Leu Leu	Ser Glu Arg His 55 Lys Glu Asp Ile	Val Ala Asp 40 Gly Gly Leu Glu Cys 120	Leu 25 Asp Tyr Thr Phe Ala 105 Tyr	Leu Lys Leu Glu 90 Lys Pro	Ser Tyr Val Glu 75 Ala Ala	Val Ala Ser 60 Asn Ser Ser	Ala Thr 45 Gln His Asn Leu Asn 125	Ala 30 Ala Asp His Leu Thr 110 Leu	15 Ile Leu Ile Phe Gly 95 Leu Ser	Glu His Phe Ala 80 Phe Ala Arg		
360 362 366 368 372 373 376 377 380 381 384 385 388 392 393 396 397	<pre>&lt;212&gt; &lt;213&gt; &lt;400&gt; Lys L 1 Phe G Ser A Phe L 65 Gly A 65 His L Glu G Leu A Asp V</pre>	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile o rg Phe eu Lys ly Glu rg Asp	PRT ISM: NCE: Leu Glu 20 Leu Leu Met Gly Asp 100 Ser	Malu 7 Ile 5 Ile Gly Arg Asp Met 85 Ile Gly	Asp Lys Thr Gln Glu 70 Leu Leu	Ser Glu Arg His 55 Lys Glu Asp Ile	Val Ala Asp 40 Gly Gly Leu Glu Cys 120	Leu 25 Asp Tyr Thr Phe Ala 105 Tyr	Leu Lys Leu Glu 90 Lys Pro	Ser Tyr Val Glu 75 Ala Ala	Val Ala Ser 60 Asn Ser Ser	Ala Thr 45 Gln His Asn Leu Asn 125	Ala 30 Ala Asp His Leu Thr 110 Leu	15 Ile Leu Ile Phe Gly 95 Leu Ser	Glu His Phe Ala 80 Phe Ala Arg		
360 362 366 368 372 373 376 377 380 381 384 385 388 392 393 396 397 400 401	<pre>&lt;212&gt; &lt;213&gt; &lt;400&gt; Lys L 1 Phe G Ser A Phe L 65 Gly A 65 His L Glu G Leu A Asp V 1</pre>	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile org Phe eu Lys ly Glu rg Asp 115 al Val	PRT ISM: NCE: Leu Glu 20 Leu Leu Met Gly Asp 100 Ser His	Malu 7 Ile 5 Ile Gly Arg Asp Met 85 Ile Gly Ser	Asp Lys Thr Gln Glu 70 Leu Leu His	Ser Glu Arg His 55 Lys Glu Asp Ile Glu 135	Val Ala Asp 40 Gly Gly Leu Glu Cys 120 Leu	Leu 25 Asp Tyr Thr Phe Ala 105 Tyr	Leu Lys Leu Glu 90 Lys Pro Ser	Ser Tyr Val Glu 75 Ala Ala Asp	Val Ala Ser 60 Asn Ser Ser Arg 140	Ala Thr 45 Gln His Asn Leu Asn 125 Arg	Ala 30 Ala Asp His Leu Thr 110 Leu Val	15 Ile Leu Ile Phe Gly 95 Leu Ser Gln	Glu His Phe Ala 80 Phe Ala Arg		
360 362 366 368 372 373 376 377 380 381 384 385 388 392 393 396 397 400 401 404	<pre>&lt;212&gt; &lt;213&gt; &lt;400&gt; Lys L 1 Phe G Ser A Phe L 65 Gly A 65 His L Glu G Leu A Asp V 1</pre>	TYPE: ORGAN SEQUE eu Glu lu Lys sp Asn 35 ys Ile org Phe eu Lys ly Glu rg Asp 115 al Val	PRT ISM: NCE: Leu Glu 20 Leu Leu Met Gly Asp 100 Ser His	Malu 7 Ile 5 Ile Gly Arg Asp Met 85 Ile Gly Ser	Asp Lys Thr Gln Glu 70 Leu Leu His	Ser Glu Arg His 55 Lys Glu Asp Ile Glu 135	Val Ala Asp 40 Gly Gly Leu Glu Cys 120 Leu	Leu 25 Asp Tyr Thr Phe Ala 105 Tyr	Leu Lys Leu Glu 90 Lys Pro Ser	Ser Tyr Val Glu 75 Ala Ala Asp	Val Ala Ser 60 Asn Ser Ser Arg 140	Ala Thr 45 Gln His Asn Leu Asn 125 Arg	Ala 30 Ala Asp His Leu Thr 110 Leu Val	15 Ile Leu Ile Phe Gly 95 Leu Ser Gln	Glu His Phe Ala 80 Phe Ala Arg		





DATE: 04/21/2005

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/531,357

TIME: 09:55:54

Input Set : A:\38-05sequencelisting.txt
Output Set: N:\CRF4\04212005\J531357.raw

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412	Gln Ala Gln Leu Gln Lys Asn Leu Arg Glu Ala Ser Arg Trp Trp Ala	
413	180 185 190	
416	Asn Leu Gly Ile Ala Asp Asn Leu Lys Phe Ala Arg Asp Arg Leu Val	
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519	ccacccatag aatcaagaaa	20



VERIFICATION SUMMARY

PATENT APPLICATION: US/10/531,357



DATE: 04/21/2005 TIME: 09:55:55

Input Set : A:\38-05sequencelisting.txt
Output Set: N:\CRF4\04212005\J531357.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number